

DINITROL F 500 LP

Humidity curing 1-component polyurethane adhesive

DINITROL F 500 LP is a one component, humidity curing polyurethane adhesive. Together with the corresponding pretreatments it is particularly suited to bonding applications in the production of trains, busses and trucks. Because of the excellent working characteristics and less particles, DINITROL F 500 LP is also very good for exposed joints.



- » Proven technology in bus, truck and train production
- » Excellent working characteristics
- » Very good standing properties
- » High elasticity
- » Solvent and PVC free
- » Ageing and weather resistant
- » Less particles & perfect visible joint

Equipment

Milwaukee Tool 18V Wireless 1-P
Art. No. 1731900

Milwaukee Tool 600 ML Add-On Set 1-P
Art. No. 1732000

Industrie Nitrile-Gloves XL 10-P
Art. No. 1734100

DINITROL F 500 LP

Art. No.	Size	Package	Color
12213	600 ml	Foilwrap	Black

a brand of



DINOL GmbH Pyrmonter Straße 76, D-32676 Lügde, Germany
Tel. +49 (0) 5281-98 2 98-0, Fax +49 (0) 5281-98 2 98-60, www.dinol.com

07.2020

All data and recommendations are the result of careful tests by our laboratories. They only can be considered as recommendation which correspond to the level of experience of today. The data are given in good faith. However, in view of the multiplicity of possible application and working methods we are not in a position to assume any responsibility or obligations deriving from the misuse of our products. Therefore, a contractual legal relationship is not justified, and there are no secondary obligations arising from any purchase contracts.

DINITROL F 500 LP

Technical Details

Characteristics

DINITROL F 500 LP is a one component, moisture curing polyurethane adhesive. Together with the corresponding pre-treatments DINITROL F 500 LP is particularly suited to bonding applications in the manufacture of trains, busses and trucks. Due to the outstanding properties as a particle-poor and very readily spreadable adhesive, DINITROL F 500 LP is also very suitable for the application of visible joints.

Application

The application of the DINITROL F 500 LP is done by extrusion out of drums, pails and foil wraps. The use of this product is suitable only for experienced users. Pre-tests are recommended for special applications.

The following documents are available on request:

- Material safety data sheet
- DINOL pre-treatment chart

Storage

Storage between 0°C and 35°C tightly closed. During transport the storage temperature may shortly (2 to 4 days) go below or above these limits. When this happens, the material has to be climatized at room temperature before application: Drums, hobbocks, cartridges and foil wraps need 1 to 2 days. Single cartridges and foil wraps need 3 to 4 hours.

Technical Data

Chemical base	Polyurethane prepolymers
Colour / Consistency	black paste
Cure mechanism	humidity-curing
Density (DIN 53217-4)	ca. 1'200 kg/m ³
Non-sag properties	very good
Application temperature	10°C – 40°C (product)
Skin formation time ¹	approx. 30 min.
Open time ¹	approx. 25 min.
Rate of cure	approx. 3 – 4 mm / 24 h
Shore A hardness (DIN 53505)	approx. 55
Tensile strength (DIN 53504)	approx. 9 MPa
Elongation at break (DIN 53504)	approx. 600 %
Tear strength (DIN 53515)	approx. 10 N/mm
Lab-shear-strength (DIN EN 1465)	approx. 5 – 7 MPa
G-modulus (DIN 54451)	approx. 1.3 MPa
Volume resistivity (DIN 60093)	approx. 10 ⁶ Ωcm
Glass transition temperature	approx. -40°C
Temperature resistance short-term (approx. 1 h)	< 90°C < 130°C
Shelf life (Storage <25°C)	
Cartridge/Foil	12 months
Drum/Hobbock	6 months
Available in	400 ml, 600 ml foilwrap, 20 L pail, 200 L drum

For all relevant safety advices please read the material safety data sheet or the packaging label.

1) 23°C / 50% rf